Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

No.KMTH/PMC/YD/2021-22/W3-SA

Date:24-01-2022

To,
The Executive Engineer
Yelahanka division,
Bruhat Bengaluru Mahanagara Palike, Bengaluru.

"PMC CERTIFICATE AND INSPECTION REPORT"

Dear Sir,

Sub: Regarding inspection report for the below mentioned work.

Name of work: Construction of Drains and Culverts at Anugraha Layout, Muniswamappa Layout, Sai Nagar-2 and surrounding Area in Ward No: 03, Yelahanka Satellite Town Sub Division.

Item No	Description Of Work	Unit	Quantities		Total Quantity
			1st&Part	2nd&Final	
1	KSRRB300-1. Earthwork excavation by manual means for Drains and similar works in ordinary soil excavated surface levelled and sides neatly dressed, the dispossed earth to be levelled neatly after breaking of clods completed as per specifications. KPWD S.R 2018-19.	Cum	1314.65	333.06	1647.71
2	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregates 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration completed as per specifications	Cum	210.65	50.68	261.33
3	KSRRB M2200-6. Providing TMT Bars Fe 500 steel reinforcement for RCC work including Straightening, cutting, bending, hooking, placing in position, lapping and/or welding whereever required, tying with binding wire and anchoring to the adjoining members whereever necessary completed as per specification.	Tonnes	22.83	6.51	29.34
	providing and laying plain/reinforced cement concrete for drain walls and bottom thickness 15cm using M20 nominal mix concrete with OPC at 300kgs. With 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom completed as per specification.	Cum	384.25	102.82	487.07

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
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5	supplying and fixing precast reinforced concrete slab 100mm thick of mix M20 using 20mm and downside graded granite metal using reinforcement 10mm dia steel at 150mm c/c both ways Completed as per specification.	Sqm	1044.27	179.10	1223.37
6	providing and laying precast drain slabs of thick 250mm thick of mix M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finishing surface on both sides etc., completed as per drawing and direction of engineer in charge of work.	Sqm	0.00	73.92	73.92
7	Providing and fixing Pre cast solid concrete kerb stones of size 450 x 150 x 400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.	No's	2107.00	462.16	2569.16
8	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.	Sqm	356.60	70.67	427.27
9	KSRRB M300-14. Excavation for road work in all type of soil by mechanical means including cutting loading to tippers trimming bottom and side slopes in accordance with requirment of lines and cross sections and transportation with a lead of 1.00 km and complete as per specification. MORTH Specification No.301 and 4Kms Lead for disposal.	Cum	0.00	627.94	627.94
10	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occcuring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3	Sqm	0.00	2093.12	2093.12
11	construction of granular sub-base grading-v as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite material, mixing by mix in place method by rotavator at OMC spreading in uniform layers with motor grader on prepared surface and compactioning with vibratory power roller to achieve the 98% proctor density, complete as per specification. clause 401 of MORTH V revision.	Cum	0.00	313.97	313.97

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12	KSRRB M400-17. Providing, Laying, Spreading and Compacting cushed stone aggregates of granite/ trap/basalt to wet Mix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base /base coarse on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification.	Cum	0.00	481.42	481.42
13	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granlar base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 KG/Sqm using mechanical means complete as per specifications and as per directions of the engineer in charge of the work.	Sqm	0.00	2093.12	2093.12
14	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, lavel and allignment, rolling with smooth wheeled, vibratory and tandom rollers to achieve the desired compaction as per MORTH table 500-10 Complete in all respects compete as per specifications MORTH specification No. 507. using 100/120 TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 4.5 % VG-30 Bitumen.	Cum	0.00	104.66	104.66
15	KSRRB M500-10. Providing and applying tack coat using 80/100 grade sqm bitumin(VGIO) in boiler fitted with the spray set distributor at the rate of 0.25KG/Sqm on the existing prepared bituminous (prime surface) clean with the mechanical broom, complete as per specifications. CLAUSE 503 of MORTH V revision.	Sqm	0.00	2093.12	2093.12

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16	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminious binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and o.43% of plastomeric thermoplastic(waste plastic) crushed aggregates of specified grading pre mixxed with bituminous binder and filler, transporting the hot mix to the work site, laying with a paver finisher to the require grade, level and allignment and rolling with the smooth wheeled, vibratory and tandom rollers to achieve the desired compaction in all respect complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.	Cum	0.00	83.72	83.72
17	KSRRB M800-13. Road marking with hot applied thermoplastic compound with reflectrising glass beads on bituminous/ concrete surface. providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectrising glass beads at 250gms/ Sqm area, thickness of 2.5mm is exclusive of surfsce applied glass beads as per IRC: 35 standards specified the finished surface to be levell uniform and free from streaks and holes complete as per speciationd MORTH specification No.803	Sqm	0.00	76.85	76.85
18	KSRRB M800-35. Supply and installation of molded shank raised pavment markers made up of poly carbonate and ABS (acrylonitrile Butadiene styrene) molded body and reflective pannels with microprismatic lens capable of providing total internal reflection of the light entering the lense face and shall support load of 16000 KG tested in accordance to specifications of catagory A of MORTH circular No. RW/NH/33023/10-97 - DO III Dt 11.06.1997. the height width and length shall not exceed 50mm, 100mm and 102mm and with minimum reflective area of 135qcm on each side and the slope to the base shall be 35o the strength of detachment	No's	0.00	204.00	204.00

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19	Direction and place identification signs with size more than 0.9 size board : providing and eracting direction and place identification retro - reflectosied sign as per IRC: 67 made of high intensity grade sheeting wide Clause 801.3, fixed over alluminium sheeting, 2mm thick with area not exeiding 0.9Sqm supported on a mild steel single angle iron post 75*75*6mm, 2 Nos firmly fixed to the ground by means of properly designed foundation with a M15 cement concrete 45*45*60Cm, 60Cm below groung level as per approved drawing	Sqm	0.00	2.43	2.43

With respect to the above subject and name of work, We have inspected the work , Quantity and Quality of above mentioned Items of work was found to be satisfactorily completed for the 2nd and Final Bill.

Thanking You,

With regards
Karnataka Material Test House Pvt Ltd.,

Narayanswamy.B
Managing Director

Karnataka Material Test House Pvt.Ltd. Bangalore

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